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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,288	06/26/2003	Markku Juntti	60091.00223	3278
32294 SOURE SAN	7590 - 09/14/2007 DERS & DEMPSEY L.L.I	EXAMINER		
14TH FLOOR		KIM, KEVIN		
8000 TOWERS CRESCENT TYSONS CORNER, VA 22182			ART UNIT	PAPER NUMBER
	,		2611	
			MAIL DATE	DELIVERY MODE
		1	09/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Applica	tion No.	Applicant(s)				
Office Action Summary		10/606	288	JUNTTI ET AL.				
		Examin	er .	Art Unit				
		Kevin Y		2611				
The MAI Period for Reply	LING DATE of this communicati	on appears on t	he cover sheet with the d	correspondence ad	ddress			
WHICHEVER IS - Extensions of time after SIX (6) MONT - If NO period for rep - Failure to reply with Any reply received	O STATUTORY PERIOD FOR S LONGER, FROM THE MAIL may be available under the provisions of 37 HS from the mailing date of this communically is specified above, the maximum statutor in the set or extended period for reply will, to by the Office later than three months after the adjustment. See 37 CFR 1.704(b).	NG DATE OF CFR 1.136(a). In no lition. y period will apply and by statute, cause the a	THIS COMMUNICATION event, however, may a reply be tire will expire SIX (6) MONTHS from application to become ABANDONE	N. nely filed the mailing date of this of the (35 U.S.C. § 133).	,			
Status								
1) Responsi	ve to communication(s) filed or	n <u>9-4-2007</u> .						
2a) This action	_	☑ This action is	non-final.					
3) Since this	application is in condition for	allowance exce	pt for formal matters, pre	osecution as to th	e merits is			
closed in	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Cla	ims							
4) Claim(s)	4) Claim(s) 1-31 and 33 is/are pending in the application.							
4a) Of the	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s)	5) Claim(s) is/are allowed.							
6)⊠ Claim(s)	6) Claim(s) 1,2,5,6,11,12,15,16,21,22,26,31 and 33 is/are rejected.							
7)⊠ Claim(s)	7) Claim(s) <u>3,4,7-10,13,14,17-20,23-24,27-30</u> is/are objected to.							
8) Claim(s)	are subject to restriction	and/or election	requirement.					
Application Paper	s							
9)∏ The speci	fication is objected to by the Ex	kaminer.		•				
10)∐ The draw	ing(s) filed on is/are: a)	accepted or	b) ☐ objected to by the	Examiner.				
Applicant	may not request that any objectior	to the drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35	U.S.C. § 119							
a) All b) 1. Ce 2. Ce 3. Co	dgment is made of a claim for Some * c) None of: rtified copies of the priority doc rtified copies of the priority doc pies of the certified copies of the plication from the International tached detailed Office action for	cuments have b cuments have b he priority docu Bureau (PCT F	een received. een received in Applicat ments have been receiv Rule 17.2(a)).	tion No red in this Nationa	ıl Stage			
	erson's Patent Drawing Review (PTO- osure Statement(s) (PTO/SB/08)	948)	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date				

DETAILED ACTION

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 4, 2007 has been entered.

Claim Rejections - 35 USC § 102

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1,2,5,6,11,12,15,16,21,22,26,31 and 33 are rejected under 35 U.S.C. 102(b) as being anticipated by Jamal et al (US 5,533,067 previously cited).

Claims 1 and 5.

Jamal et al discloses a method (see Fig.4), comprising:

determining from a received signal at least one variable representing statistical c characteristics of a channel; see correlator (23) and Sync (24),

determining a prefilter (26) using at least one variable representing the statistical characteristics of the channel; see the output of the Sync (24) is provided to the control input of the prefilter and,

adapting sample rate of a prefilter output of the prefilter for an adaptive_channel estimator (31); see the sample rate of the prefiltered signal is adapted by the sync block (24). See col. 9, lines 30-37 in particular.

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Claim 2.

Jamal et al discloses correlation between channel measurements, at the correlation 23, which is one of the recited statistical variables.

Claim 6.

Jamal et al does not teach the length of the channel estimator (31) is variable, implying that it is configured constant.

Claims 11,15,21,31 and 33.

Jamal et al discloses a prefiltering arrangement (see Fig.4) comprising:

a first determination unit (23,24) configured to determine, from a received signal, at least one variable representing statistical characteristics of a channel; see correlator (23),

a second determination unit (38) configured to determine a number of prefilter taps of a prefilter using at least one variable representing the statistical characteristics of the channel; see the output of the Sync (24) is provided to the control input of the prefilter and

an adaptation unit (24) configured to adapt sample rate of the prefilter output of the prefilter for an adaptive channel estimator (31). See the sample rate of the prefiltered signal is adapted by the sync block (24). See col. 9, lines 30-37 in particular.

Claims 12 and 22.

Jamal et al discloses correlation between channel measurements, at the correlation 23, which is one of the recited statistical variables.

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Claims 16 and 26.

Jamal et al does not teach the length of the channel estimator (31) is variable, implying that it is

configured constant.

Allowable Subject Matter

4. Claims 3,4,7-10,13,14,17-20,23-25,27-30 are objected to as being dependent upon a

rejected base claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be

directed to Kevin Y. Kim whose telephone number is 571-272-3039. The examiner can normally be reached on

8AM --5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shuwang Liu

can be reached on 571-272-3036. The fax phone number for the organization where this application or proceeding

is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information

Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR

or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more

information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like

assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-

786-9199 (IN USA OR CANADA) or 571-272-1000.

September 12, 2007

AU 2611

KEVIN KIM
PATENT EXAMINER

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